Index of Claims

| Application/Control No | App | plicati | on/Contro | I No. |
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10/664,079

Examiner

YUYAMA ET AL.

Applicant(s)/Patent under Reexamination

Art Unit

Hemant M. Desai

3721

√ Rejected
= Allowed

| <u>-</u> | (Through numeral)<br>Cancelled |
|----------|--------------------------------|
| +        | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      |              |                |          |              | Dat      | e        |              |  |          |   | Cla         | aim      |                 |                 |               | Dat              | 9               |                 |              |       | CI    | aim        |                 |               |          | D        | ate      |          |          |           |          |
|----------|----------|--------------|----------------|----------|--------------|----------|----------|--------------|--|----------|---|-------------|----------|-----------------|-----------------|---------------|------------------|-----------------|-----------------|--------------|-------|-------|------------|-----------------|---------------|----------|----------|----------|----------|----------|-----------|----------|
|          |          |              |                |          |              |          |          |              |  |          |   |             | <u> </u> |                 | T               |               |                  |                 |                 |              |       |       | <u>~</u>   |                 |               |          |          |          |          |          |           |          |
| Final    | Original | 7/22/05      |                |          |              | 1        |          |              |  |          |   | Final       | Original |                 |                 |               |                  |                 |                 |              |       | Final | Original   |                 |               |          |          |          |          |          |           | - [      |
| iĒ       | [ 꽃      | 712          |                |          |              |          |          |              |  |          |   | ﻧ਼≣         | Ĕ        |                 |                 |               |                  |                 |                 |              |       | ίĽ    | Ö          |                 |               |          |          |          |          |          |           |          |
|          | <u> </u> | , -          |                |          |              | L        |          | L            |  |          |   |             |          |                 |                 | ┸             | 1_               |                 |                 | $\perp$      |       |       |            |                 | _             | _        | $\dashv$ |          | _        |          | $\dashv$  | _        |
|          | 1        | 4            | 1              |          |              | L        |          |              | <u> </u>   |          |   | <u> </u>    | 51       |                 |                 |               | 1                | Ц               |                 | 1_           |       |       | 101        |                 | _ .           | 4        | _        | _        | _        |          | 4         | ᆜ        |
|          | 2        | $\prod$      |                |          |              |          |          | Ŀ            | _  |          |   |             | 52       | $\sqcup$        |                 |               | <b>⊥</b> _       | Ш               |                 | <u> </u>     |       |       | 102        |                 | _             | _        | _        | $\dashv$ | _        | _        | 4         | ᅬ        |
|          | 3        | П            |                |          |              |          |          |              |  |          |   |             | 53       | Ш               | _               |               |                  | Ш               |                 | 1            |       |       | 103        |                 | _             | _        | 4        | 4        | _        |          | 4         | _        |
|          | 4        | Ш            | L              | <u> </u> | L            | <u> </u> |          | _            | <u></u>  |          |   |             | 54       | Ш               | _               |               |                  | Ц               |                 | 1_           |       |       | 104        |                 | _             | _        | _        | _        | _        | _        | 4         | ᅴ        |
|          | 5        | Ц            |                | <u> </u> | 乚            | <u> </u> | _        |              | ┖  |          |   |             | 55       | Ш               | _               |               |                  | Ш               |                 | 1            |       |       | 105        |                 | _             | 4        |          | _        | $\dashv$ | _        | $\dashv$  | -        |
|          | 6        | 3            | 1_             | <u> </u> | <u> </u>     | Ļ        |          |              | _  |          |   |             | 56       | Ш               |                 |               | ┸                | Щ               | _               | ╀            |       |       | 106        |                 | $\dashv$      | _        | -        | _        | -        | $\perp$  | 4         | -        |
|          | 7        | <u></u>      | 1_             |          | <u> </u>     | _        | <u> </u> | _            | _  | _        |   |             | 57       | $\sqcup$        |                 |               | ļ                | Ш               | _               | $\bot$       |       |       | 107        |                 |               | -        | 4        | _        | -        | 4        | 4         | ᅴ        |
|          | 8        | <u> </u>     | <u> </u>       | L        | <u> </u>     | <u> </u> | <u> </u> | <u> </u>     | ╙  | oxdot    |   |             | 58       | _               | _               | _             | $\bot$           |                 | -               | —            |       |       | 108        |                 | _             | 4        | -        | _        | $\dashv$ | -        | $\dashv$  | ᅴ        |
|          | 9        | <u> </u>     |                | ┡        | _            | _        | <u> </u> | <u> </u>     | ↓_   | $\vdash$ |   |             | 59       | Ш               | $\dashv$        | -             | -                | Н               |                 | +-           |       |       | 109        |                 | $\rightarrow$ | $\dashv$ | $\dashv$ |          | -        | $\dashv$ | $\dashv$  | ᅱ        |
| L        | 10       | <u> </u>     | <u> </u>       | <u> </u> | _            | ļ        |          | <u> </u>     | <u> </u>   | _        |   |             | 60       | $\sqcup$        | +               | +             | ┿                | $\sqcup$        | -1-             |              |       |       | 110        | $\vdash$        | -             |          | -        |          |          | +        | -+        | ᅱ        |
| <u> </u> | 11       | L            |                | ╄        | ļ            | 1        | ــــ     | 1            | -  | $\vdash$ |   |             | 61       | ⊢∤              | $\dashv$        | <u> </u>      | +                | $\vdash \vdash$ | +               | +            |       |       | 111        | $\vdash$        | $\dashv$      | -        | -        | -        | -        | +        | $\dashv$  | $\dashv$ |
| <u></u>  | 12       | <u> </u>     |                | ┞        | ┡            | ↓        | ╄        | ↓            | $\vdash$   | -        |   |             | 62       | $\vdash \dashv$ |                 | +             | ļ                | ⊢∤              |                 | +-           |       |       | 112        | $\vdash\dashv$  | $\dashv$      | -        | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  | $\dashv$ |
| <u></u>  | 13       | _            | <u> </u>       | -        | $\vdash$     | 1        | -        | <b>L</b> _   | ╀  | $\vdash$ |   |             | 63       | $\vdash$        | $\dashv$        | +             | +                | $\vdash \vdash$ |                 |              | ::::: |       | 113        | $\vdash \vdash$ | -             | $\dashv$ |          |          | $\dashv$ | +        | -+        | $\dashv$ |
|          | 14       |              | <u> </u>       | ــ       | ┞            | ┼        | ـ        | <u> </u>     | ╀  |          |   |             | 64       | 1               | $\dashv$        | +             | +                | $\vdash$        |                 | +-           |       |       | 114        | $\vdash$        | -             | -        |          | $\dashv$ | $\dashv$ |          | -+        | $\dashv$ |
| <u></u>  | 15       | L            |                | -        | ├-           | $\vdash$ |          | ⊬            | 1  | $\vdash$ |   |             | 65       | $\vdash$        | $\dashv$        | +             | +                |                 |                 | +            |       |       | 115<br>116 | H               | -             | $\dashv$ |          |          | $\dashv$ | $\dashv$ | +         | $\dashv$ |
| <u></u>  | 16       | ⊢            | ļ              | $\vdash$ | -            | $\vdash$ | ┼        | $\vdash$     | ╁  | -        |   |             | 66       | $\vdash$        | $\dashv$        | +             | +                | $\vdash \vdash$ | -               | +            |       |       | 117        |                 | $\dashv$      | +        |          |          | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u> | 17       | $\vdash$     | ┼              | $\vdash$ | 1            | +        | -        | $\vdash$     | +  | $\vdash$ |   | <u> </u>    | 67       | $\vdash$        | $\dashv$        | +             | +                | $\vdash \vdash$ |                 | +            | ł     |       | 117        | $\vdash$        | $\dashv$      | ┥        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
|          | 18       | 1-           |                | ┢        | ├-           | 1        | ├-       | ⊢            | ₩  |          |   |             | 68       | $\vdash$        | -+              |               |                  | $\vdash\vdash$  | -               | +            | 1     |       | 119        | $\vdash$        | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -+       | +         | ᅱ        |
|          | 19       | <del> </del> |                | ₩        | ├-           | ┼        | ├        | ⊢            | ┼  | $\vdash$ |   |             | 69       | $\vdash$        | $\dashv$        | +             | +                | $\vdash$        |                 | +            |       |       | 120        | -               | -             | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -         | 一        |
|          | 20       | <u> </u>     |                | ⊢        | ├-           | +        | ╁        | ├-           | ┼-   | $\vdash$ |   |             | 70       | $\vdash$        | $\dashv$        |               | +-               | H               |                 | +            | 1     |       | 121        | -               | $\dashv$      | $\dashv$ | -        | $\dashv$ | -1       | $\dashv$ | +         | $\dashv$ |
|          | 21       | ▙            | ├-             | ╁        | ⊢            | ┼        | ⊢        | -            | ╀  | -        |   |             | 71       | $\vdash$        | $\dashv$        |               | ┿                | Н               |                 | +-           |       | -     | 122        | -               | $\vdash$      |          |          | -        | $\dashv$ | +        | -+        | $\dashv$ |
|          | 22       | <b>├</b>     | ╁              | ⊢        | ├-           | ╀        | ╀        | ┝            | ╀  | $\vdash$ |   |             | 72<br>73 | ┝╌┥             | $\dashv$        |               | +-               | Н               |                 | +            | 1     | _     | 123        | -               | $\vdash$      | ┪        |          | -        |          | +        | -         | $\dashv$ |
|          | 23       | ┢            | +              | ⊢        | ⊢            | ╀        | ╁        | ├            | ┼  | ⊢        |   |             | 74       | Н               | $\dashv$        | +             | +-               | $\vdash$        | -               | +-           | ł     |       | 124        |                 | $\dashv$      | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$  | ㅓ        |
|          | 24       | ┝            | ╀╌             | Ͱ        |              | ╁        | ┼        | $\vdash$     | ╀  | ┢        |   |             | 75       | $\vdash$        | $\dashv$        |               | +                | $\vdash$        | +               | ╁            | 1     |       | 125        | H               | $\vdash$      | -        | -        | $\dashv$ | $\dashv$ | $\dashv$ | +         | $\dashv$ |
|          | 25<br>26 | <del> </del> | ┢              | ╁        | ⊢            | ╁╾       | ╁        | ╁            | ⊢  | ┝        |   | <u> </u>    | 76       | $\vdash$        | $\dashv$        |               | +                | $\vdash$        |                 | +            |       |       | 126        | $\vdash$        | · †           | -        |          | $\dashv$ |          | 十        | 7         | ㅓ        |
|          | 27       | ├            | ┢              | ╁        | ⊢            | +-       | ╁        | ├            | $\vdash$   | -        |   |             | 77       | $\vdash$        | $\dashv$        | +-            | ╁                | $\vdash$        | +               | ╫            |       |       | 127        | H               | $\vdash$      | _        | $\dashv$ | -        | $\dashv$ | 十        | 7         | 一        |
|          | 28       | -            | ╁╌             | ╁        | ⊢            | ╁        | ╁        | ╁            | $\vdash$   | -        |   | ┢           | 78       | ╂┈┤             | $\vdash$        |               | +                | $\vdash$        |                 | +            | 1     |       | 128        |                 | $\Box$        | _        | 一        | _        | 一        | $\dashv$ | $\dashv$  | $\dashv$ |
|          | 29       | $\vdash$     | ╁              | ╁        | ┼-           | ╁        | ╁        | $\vdash$     | $\vdash$   | ╁        |   | <b>-</b>    | 79       | +               | $\dashv$        | +             | 1-               | H               | _               | +-           |       |       | 129        | Н               | $\vdash$      | $\neg$   | 一        |          | 寸        | 7        | +         | $\dashv$ |
| _        | 30       | ╁╾           | $\vdash$       | H        | ╁            | +        | ╁        | -            | -  | $\vdash$ |   | <u> </u>    | 80       | $\forall$       | T               | +             |                  | H               | $\dashv$        | +            | 1     |       | 130        | $\vdash$        | H             | $\neg$   | ヿ        |          | 寸        | _        | $\dashv$  | ᅥ        |
| <u> </u> | 31       | ╁╾           | $\vdash$       | ┢        | ╁            | +        | +        | <del> </del> | ┼  | $\vdash$ |   | <del></del> | 81       | $\vdash$        | _               | +             | +                | H               | _               | +            | 1     |       | 131        | H               | $\vdash$      |          | 一        |          | $\neg$   | 一        |           | ᅥ        |
| -        | 32       | -            | +              | ╁╌       | +            | +        | t        | +            | +  | $\vdash$ |   | $\vdash$    | 82       | $\vdash$        |                 | +             | $\top$           | Н               | $\dashv$        | +            |       |       | 132        |                 |               | $\neg$   |          | $\dashv$ |          | $\dashv$ | 1         | ᅥ        |
| <b>—</b> | 33       | 1            | +              | $\vdash$ | $\vdash$     | +        | 1        | t            | <del>                                     </del> | $\vdash$ |   | <b>-</b>    | 83       | $\vdash$        | 1               | $\dashv$      | $\top$           | Н               | $\dashv$        | $\top$       | 1     |       | 133        |                 | $\Box$        | $\dashv$ |          |          | $\neg$   | $\neg$   | ┪         | $\dashv$ |
| <b>—</b> | 34       | +            | +              | +        | ╁╴           | +        | T        | $t^{-}$      | †  | $t^-$    |   |             | 84       | Н               | $\vdash$ †      | $\dashv$      | $\top$           | П               |                 | _            | 1     |       | 134        |                 | П             | $\neg$   |          |          |          | 寸        | $\dashv$  | $\dashv$ |
|          | 35       | 1            | t              | t        | $\vdash$     | +-       | $t^-$    | T            | $\top$   | T        |   |             | 85       | П               | $\dashv$        | $\top$        | _                | П               | $\neg$          | 1            |       |       | 135        |                 | П             |          | $\neg$   |          |          | _        | $\exists$ | $\neg$   |
| -        | 36       | T            | $\vdash$       | $\vdash$ | 1            | 1-       | T        | t            | †  | T        |   |             | 86       | П               | $\dashv$        | $\neg$        | †                | $\sqcap$        | $\neg \uparrow$ | $\dagger$    |       |       | 136        |                 | $\Box$        | $\neg$   |          |          |          |          |           | $\Box$   |
| <b></b>  | 37       | $t^-$        | 1              | $t^-$    | 1            | +-       | $t^-$    | t            | +  | $t^-$    |   |             | 87       | П               | $\dashv$        | $\dashv$      | $\top$           | П               | $\neg$          | T            | 1     |       | 137        | П               | П             |          |          |          |          | $\neg$   | ╗         |          |
| <b> </b> | 38       | t            | +              | $t^-$    | $^{\dagger}$ | ╁        | ✝        | t            | T  | $\vdash$ | 1 |             | 88       | П               | $\neg \uparrow$ | $\top$        | 1                | П               |                 | $\top$       | 1     | -     | 138        |                 | $\Box$        |          |          |          |          | $\Box$   |           |          |
|          | 39       | T            | <del>  -</del> | T        | T            | T        | 1        | 1            | T  | $\vdash$ |   |             | 89       | П               |                 | 十             | 1                | П               | $\neg$          | 1            | 1     |       | 139        |                 |               |          |          |          |          |          |           |          |
|          | 40       | T            | T              | $\vdash$ |              | Τ        | 1        | $T^-$        | T  | Г        | 1 |             | 90       | П               | $\sqcap$        | $\neg$        |                  | П               |                 |              | ]     |       | 140        |                 |               |          |          |          |          |          | J         |          |
|          | 41       | T            | T              |          | T            | †        | 1        | $\vdash$     | 1  |          |   |             | 91       |                 | $\sqcap$        | $\neg$        |                  |                 |                 |              | ]     |       | 141        |                 |               |          |          |          |          |          |           |          |
|          | 42       | T            | T              | Τ        | T            | 1        | Τ        | T            | Τ  |          | 1 |             | 92       | П               |                 |               |                  |                 |                 |              | ]     |       | 142        |                 |               |          |          |          |          |          |           |          |
|          | 43       | Γ            | Т              | Т        | Τ            | 1        | $\top$   | 1            |  | T        |   |             | 93       | П               |                 |               | I                |                 |                 |              | ]     |       | 143        |                 |               |          |          |          |          |          | $\Box$    |          |
|          | 44       | Τ            | Τ              | T        |              |          |          |              | Ι  | $\Gamma$ |   |             | 94       |                 |                 |               | floor            |                 |                 | $oxed{oxed}$ |       |       | 144        | 匚               |               |          |          |          |          |          |           |          |
|          | 45       | Τ            | 1              | T        | Ι            |          | 1        |              |  | Ι        |   |             | 95       |                 |                 |               | $\mathbf{I}^{-}$ |                 |                 | $oxed{\Box}$ |       |       | 145        |                 |               |          |          |          |          |          |           |          |
|          | 46       | Τ            |                | Т        |              |          | Π        |              |  | Γ        |   |             | 96       |                 |                 | $\Box \Gamma$ | $oxed{oxed}$     |                 |                 |              |       |       | 146        | 匚               | $\Box$        |          |          |          |          |          | [         |          |
|          | 47       | Τ            | 1              | Τ        |              | $\top$   | Т        |              | T  |          | ] |             | 97       |                 |                 |               | Τ                |                 |                 |              |       |       | 147        |                 |               |          |          |          |          |          |           |          |
|          | 48       | Τ            | Τ              | T        | Τ            |          | Π        |              | T  |          |   |             | 98       |                 |                 | $\Box$        | Ι                |                 |                 |              |       |       | 148        |                 |               |          |          |          |          |          | $\Box$    |          |
|          | 49       | Π            | 1              | Т        | Τ            | 1        | T        | Ī            | Τ  |          |   |             | 99       | Π               |                 |               |                  |                 |                 |              | ]     |       | 149        |                 |               |          |          |          |          |          |           |          |
|          | 50       | Γ            |                | L        |              |          |          |              | $\Gamma$   |          | ] |             | 100      |                 |                 | $\Box$        |                  |                 |                 |              | ]!!!! |       | 150        |                 |               |          |          |          |          | $\Box$   |           |          |